

Storm Data and Unusual Weather Phenomena

March 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEW MEXICO Southeast</u>									
Eddy County 2 NW Carlsbad	03	2209MST 2210MST			0	0	0	0	Hail(0.75)
Elevated strong to severe thunderstorms developed over the southeast New Mexico plains during the late evening of the 3rd and early on the 4th. This activity spread east into Texas where a widespread and significant round of severe weather unfolded through the 4th.									
<u>TEXAS West</u>									
Andrews County Frankel City	03	2155CST 2200CST			0	0	0	0	Hail(0.88)
A rather prolonged severe weather episode began late in the evening of the 3rd. The first severe thunderstorm to develop resulted in nickel size hail near the rural community of Frankel City in Andrews County.									
Midland County 3 S Greenwood	04	0220CST 0230CST			0	0	0	0	Hail(1.00)
Nickel to quarter size hail was observed by a local television meteorologist at his residence near Greenwood.									
Glasscock County 5 W St Lawrence	04	0450CST 0500CST			0	0	0	0	Hail(0.88)
Reported at the intersection of Farm to Market Road 2401 and Texas State Route 137 south of Bigby Corner.									
Dawson County 7 S Lamesa to 9 ESE Lamesa	04	0500CST 0512CST			0	0	0	0	Hail(1.75)
Penny to Golfball size hail was reported from U.S. Highway 87 south of Lamesa to rural locations east of that highway. No damage was reported.									
Howard County Forsan	04	0527CST 0540CST			0	0	0	0	Hail(1.00)
The first of three individual hail storms to affect Howard County on the morning of the 4th resulted in quarter size hail at Forsan.									
Scurry County 10 WSW Snyder	04	0622CST 0635CST			0	0	0	0	Hail(0.88)
A rural resident reported penny to nickel size hail.									
Glasscock County Lees	04	0650CST 0655CST			0	0	0	0	Hail(0.88)
Howard County Forsan to Coahoma	04	0701CST 0715CST			0	0	0	0	Hail(0.88)
Midland County Greenwood	04	0710CST 0715CST			0	0	0	0	Hail(0.75)
Martin County 3 SE Lenorah	04	0730CST 0735CST			0	0	0	0	Hail(0.75)
Scurry County 2 E Fluvanna	04	0748CST			0	0	0	0	Hail(0.75)
Martin County Stanton	04	0823CST			0	0	0	0	Hail(0.75)
Pecos County Bakersfield	04	0825CST			0	0	0	0	Hail(0.75)
Upton County Rankin	04	0846CST			0	0	0	0	Hail(1.00)

Storm Data and Unusual Weather Phenomena

March 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>TEXAS West</u>									
Howard County 6 N Knott	04	0848CST			0	0	0	0	Hail(0.75)
		Between midnight CST and sunrise, a series of supercell storms tracked across the southeast Permian Basin. These storms developed along a warm front that slowly moved north through the morning hours, and eventually reached the Interstate 20 corridor. Meanwhile, strong to severe convection continued to produce large hail north of the boundary over the northeast Basin.							
Reagan County 10 NNW Texon	04	0855CST			0	0	0	0	Hail(1.75)
		Golfball hail was reported at the Benedum Gas Plant on the Reagan/Upton County line.							
Upton County 14 NE Rankin	04	0855CST			0	0	0	0	Hail(1.75)
		Golfball hail was reported at the Benedum Gas Plant on the Reagan/Upton County line.							
Pecos County Sheffield	04	0905CST			0	0	5K	0	Thunderstorm Wind (EG57)
		A tin roof was blown off of a storage barn by severe thunderstorm winds.							
Terrell County 31 NE Dryden	04	0915CST 0925CST			0	0	75K	0	Thunderstorm Wind (EG61)
		Employees at the Terrell County Gas Plant reported winds up to 70 MPH. The winds knocked over a large storage vessel that weighed several tons. In addition, a service unit was also damaged.							
Borden County 14 E Gail	04	0920CST			0	0	0	0	Hail(1.75)
Reagan County 13 NE Stiles to 14 NE Stiles	04	0925CST 0926CST	0.5	75	0	0	20K	0	Tornado (F0)
		Results from a National Weather Service storm survey indicated that a brief tornado resulted in five downed power poles in open range land across northeast Reagan County. A witness reported seeing a funnel in the immediate vicinity, and a rural resident that lives near the damaged poles heard a "loud roar".							
Glasscock County 7 W Garden City	04	0929CST			0	0	0	0	Hail(1.00)
		Reported on State Route 158.							
Glasscock County 8 E Garden City	04	0935CST 0950CST			0	0	0	0	Hail(1.00)
		Quarter size hail covered the ground along State Route 158.							
Glasscock County Lees	04	0950CST			0	0	0	0	Hail(1.00)
Howard County Forsan	04	0955CST 1000CST			0	0	0	0	Hail(0.88)
		Nickel hail was reported by the Texas Department of Public Safety along Highway 87 at Forsan.							
		The convection evolved into a squall line by mid morning. The initially short line of storms was characterized by a well-defined bookend vortex on its north end that tracked across Glasscock County. This portion of the line produced quarter to golfball size hail. Severe thunderstorm winds affected eastern Pecos and northern Terrell Counties as the southern extent of the line progressed east.							
		Several line echo wave patterns were identified using local warning weather radar along the squall line as it expanded north with time. A tornado was confirmed to have been associated with one such signature in northeast Reagan County.							
Midland County 2 S (Maf) Midland Intl	04	1025CST			0	1	0	0	Lightning
		A man was injured when lightning struck the metal equipment he was working on. He was treated at an area hospital and was released later in the day.							
Mitchell County 9 S Colorado City to 8.5 SSE Colorado City	04	1028CST 1029CST	0.5	75	0	0	125K	0	Tornado (F0)

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	March 2004 Character of Storm
<u>TEXAS West</u>									
									A tornado severely damaged two trailer homes and a few recreational vehicles in the Lake Champion vicinity along Highway 208 south of Colorado City. The roof was partially removed from one trailer house, and another was rolled onto its top. No injuries were reported.
Mitchell County 2 S Loraine to 1 E Loraine	04	1038CST 1040CST	1	75	0	1	275K	0	Tornado (F0)
									A weak tornado struck the city of Loraine resulting in one injury and damage to several light-weight structures and vehicles. Damage surveyed by a National Weather Service meteorologist began on the south side of the city near Looby Street. From there the tornado traveled northeast producing a one mile long damage path that cut across the southeast corner of the city to near Interstate 20. Along the path, a roof was partially removed from one home and several vehicles and trailers were damaged or destroyed. About \$100,000 worth of musical equipment was destroyed when a cargo trailer was rolled by the tornado. The tornado began to dissipate as it crossed Interstate 20 on the east side of the city. Before doing so, it blew two semi-trucks off of the highway, injuring one driver. Several eye witnesses described seeing the tornado's condensation funnel and debris whirling beneath it.
Mitchell County Colorado City	04	1040CST 1043CST			0	0	0	0	Hail(0.88)
									Pea to nickel size hail covered the ground in Colorado City.
Scurry County 13 S Snyder to 2 S Snyder	04	1040CST 1043CST			0	0	0	0	Hail(0.88)
									A line of severe thunderstorms extended from near Dunn to Snyder and resulted in pea to nickel size hail.
Mitchell County Loraine	04	1042CST			0	0	10K	0	Thunderstorm Wind (EG61)
									A large tin barn was damaged by severe thunderstorm winds on the north side of the city. The winds entered the structure through a garage door, and blew out the opposite wall.
									The areal coverage of the severe squall line expanded north and south as it progressed east into west central Texas. Numerous small scale circulations developed along the leading edge of the line in association with line echo wave patterns and bowing segments. Two weak tornadoes resulted over Mitchell County. In addition, damaging thunderstorm winds and hail remained a threat until the convective complex exited the Permian Basin and continued east across central Texas.
Howard County Vincent	04	1120CST 1230CST			0	0	0	0	Flash Flood
									Running water flooded roadways near Vincent.
Scurry County Snyder	04	1140CST 1400CST			0	0	15K	0	Flash Flood
									Numerous roads were inundated by high water in the city of Snyder. In addition, Deep Creek flooded in the city. As a result, several vehicles stalled in high water. The Snyder Fire Department conducted several high water rescues. No injuries were reported.
TXZ061	Ector 04	1500CST 1800CST			0	0	10K	0	High Wind (ES39)
									High gradient winds resulted in minor roof damage to a few light structures in Odessa. The strongest sustained wind speed measured across the Permian Basin during the late afternoon was 39 MPH at the Midland International Airport. It is estimated that sustained winds around 45 MPH caused the damage.
									A significant severe weather event affected Texas and Oklahoma on the 3rd and 4th of March. Elevated severe thunderstorms first erupted across West Texas and far southeast New Mexico late in the evening on the 3rd. The activity increased in intensity and coverage through the night over the Permian Basin and Trans Pecos regions of Texas as a warm front moved north to the Interstate 20 corridor. Widely scattered supercell storms moved along the boundary over the southeast Permian Basin during the very early morning hours. The convection then evolved into a broken squall line as it began to quickly spread east. Several bookend vorticies, line echo wave patterns, and bow segments were observed in the Doppler radar imagery across the eastern Permian Basin. A total of three weak tornadoes were confirmed to be associated with these signatures.

Storm Data and Unusual Weather Phenomena

Location	Date	Time	Path	Path	Number of		Estimated		March 2004 Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
Brewster County 65 S Alpine	12	1350CST			0	0	0	0	Hail(1.75) Showers and thunderstorms were widespread across West Texas on the 12th. This activity provided the region with much needed rainfall. Most of the convection was relatively weak, with only occasional cloud-to-ground lightning strikes. During the early afternoon, however, an isolated severe thunderstorm developed over the Big Bend. An amateur radio operator traveling along State Highway 118 reported golfball size hail that covered the ground west of Terlingua Ranch.
Jeff Davis County 17 W Ft Davis	14	1420CST 1430CST			0	0	0	0	Hail(0.75)
Presidio County 17 WNW Marfa to 10 SSW Marfa	14	1430CST 1521CST			0	0	0	0	Hail(1.00) A severe thunderstorm tracked southeast across northern Presidio County and resulted in large hail. Nickel size hail covered the ground along U.S. Highway 90 nineteen miles northwest of Marfa. Quarter size hail accumulated up to three inches deep over the highway just west of Maria, and crews were required to clear the hail from the roadway. Dime to nickel size hail was also reported at a U.S. Border Patrol check point along U.S. Highway 67 south of Maria. No damage reports were received.
									Thunderstorms developed in the vicinity of the Davis Mountains and the Big Bend during the afternoon of the 14th. These storms resulted in hail up to the size of quarters.
Andrews County 10 NE Andrews	20	1715CST			0	0	0	0	Hail(0.75) Reported on Farm to Market Road 1788.
Mitchell County 7 SW Colorado City	20	1827CST 1841CST			0	0	0	0	Hail(1.25) Nickel to half dollar size hail was reported to last for almost fifteen minutes at Lake Colorado City State Park.
Howard County Big Spring	20	1951CST			0	0	0	0	Hail(1.75) Golfball size hail was reported in Big Spring. No damage was reported.
Midland County Midland	20	2101CST 2118CST			0	0	0	0	Hail(1.00) A severe thunderstorm moved southwest across Midland and produced large hail. Nickel size hail was first reported at the intersection of Loop 250 and Business 20. Other reports of penny to quarter size hail were received as the storm tracked across the city.
Ector County Notrees	20	2223CST			0	0	0	0	Hail(1.00)
Winkler County 6 N Kermit	20	2228CST			0	0	0	0	Hail(0.88) Nickel size hail was accompanied by 50 MPH wind gusts north of Kermit near the intersection of Farm Road 874 and Highway 18.
									Severe thunderstorms developed along a cold front that swept south across the Texas Permian Basin and Trans Pecos during the late afternoon and evening of the 20th. Large hail up to the size of golfballs was reported.
Scurry County Dunn	24	1732CST			0	0	0	0	Hail(0.88) The first of two separate severe thunderstorms to affect the Dunn community during the late afternoon of the 24th produced nickel size hail.
Scurry County Dunn	24	1815CST			0	0	0	0	Hail(0.75) The second hail storm of the day to affect the Dunn community produced penny size hail.
Mitchell County Colorado City	24	1830CST 1844CST			0	0	25K	0	Hail(1.50) Reports indicate that hail ranging in size from quarters to ping pong balls fell in the town of Colorado City for fourteen minutes. Several cars were severely damaged.

Storm Data and Unusual Weather Phenomena

March 2004

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>TEXAS West</u>									
		Isolated severe thunderstorms developed over the eastern Permian Basin and the Lower Trans Pecos regions of West Texas during the late afternoon and evening hours of the 24th. This activity developed along a dryline. Large hail fell on the community of Colorado City for an extended period of time and damaged several vehicles.							
Pecos County Ft Stockton	25	1550CST			0	0	0	0	Hail(0.75)
		An isolated severe thunderstorm produced large hail in Fort Stockton.							
Ector County 4 W Goldsmith	26	1820CST 1835CST			0	0	0	0	Hail(0.88)
		Dime to nickel size hail covered the ground.							
Reagan County 13 NNW Stiles	27	0345CST 0400CST			0	0	0	0	Hail(1.00)
		Nickel to quarter size hail covered the ground.							

An isolated left moving severe thunderstorm that developed along a dryline resulted in large hail in Ector County during the early evening. A additional thunderstorm activity developed during the overnight hours. One of these storms became severe and produced large hail in Reagan County.